

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/511,832
Source: PCT/10
Date Processed by STIC: 10/29/04

ENTERED



PCT

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,832

DATE: 10/29/2004

TIME: 11:33:33

Input Set : A:\ISIS0048-100.SEQ.txt
 Output Set: N:\CRF4\10292004\J511832.raw

```

4 <110> APPLICANT: Susan M. Freier
6 <120> TITLE OF INVENTION: ANTISENSE MODULATION OF HYDROXYSTEROID
7           11-BETA DEHYDROGENASE 1 EXPRESSION
10 <130> FILE REFERENCE: RTS-0428
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/511,832
C--> 12 <141> CURRENT FILING DATE: 2004-10-19
12 <160> NUMBER OF SEQ ID NOS: 122
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 20
18 <212> TYPE: DNA
19 <213> ORGANISM: Artificial Sequence
21 <220> FEATURE:
22 <223> OTHER INFORMATION: Antisense Oligonucleotide
24 <400> SEQUENCE: 1
25 tccgtcatcg ctccctcaggg                                         20
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 20
29 <212> TYPE: DNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Antisense Oligonucleotide
35 <400> SEQUENCE: 2
36 atgcattctg cccccaagga                                         20
38 <210> SEQ ID NO: 3
39 <211> LENGTH: 1375
40 <212> TYPE: DNA
41 <213> ORGANISM: Homo sapiens
43 <220> FEATURE:
44 <221> NAME/KEY: CDS
45 <222> LOCATION: (95)...(973)
47 <400> SEQUENCE: 3
48 attcagaggc tgctgcctgc tttaggaggtt gtagaaagct ctgttaggttc tctctgtgtg 60
49 tcctacagga gtcttcaggc cagctccctg tcgg atg gct ttt atg aaa aaa tat 115
50                               Met Ala Phe Met Lys Lys Tyr
51                               1             5
53 ctc ctc ccc att ctg ggg ctc ttc atg gcc tac tac tac tat tct gca  163
54 Leu Leu Pro Ile Leu Gly Leu Phe Met Ala Tyr Tyr Tyr Ser Ala
55          10            15            20
57 aac gag gaa ttc aga cca gag atg ctc caa gga aag aaa gtg att gtc  211
58 Asn Glu Glu Phe Arg Pro Glu Met Leu Gln Gly Lys Lys Val Ile Val
59          25            30            35
61 aca ggg gcc agc aaa ggg atc gga aga gag atg gct tat cat ctg gcg  259

```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,832

DATE: 10/29/2004
TIME: 11:33:33

Input Set : A:\ISIS0048-100.SEQ.txt
Output Set: N:\CRF4\10292004\J511832.raw

62	Thr	Gly	Ala	Ser	Lys	Gly	Ile	Gly	Arg	Glu	Met	Ala	Tyr	His	Leu	Ala	
63	40					45				50						55	
65	aag	atg	gga	gcc	cat	gtg	gtg	gtg	aca	gca	agg	tca	aaa	gaa	act	cta	307
66	Lys	Met	Gly	Ala	His	Val	Val	Val	Thr	Ala	Arg	Ser	Lys	Glu	Thr	Leu	
67						60				65						70	
69	cag	aag	gtg	gtg	tcc	cac	tgc	ctg	gag	ctt	gga	gca	gcc	tca	gca	cac	355
70	Gln	Lys	Val	Val	Ser	His	Cys	Leu	Glu	Leu	Gly	Ala	Ala	Ser	Ala	His	
71						75				80						85	
73	tac	att	gtc	ggc	acc	atg	gaa	gac	atg	acc	ttc	gca	gag	caa	ttt	gtt	403
74	Tyr	Ile	Ala	Gly	Thr	Met	Glu	Asp	Met	Thr	Phe	Ala	Glu	Gln	Phe	Val	
75						90				95						100	
77	gcc	caa	gca	gga	aag	ctc	atg	gga	gga	cta	gac	atg	ctc	att	ctc	aac	451
78	Ala	Gln	Ala	Gly	Lys	Leu	Met	Gly	Gly	Leu	Asp	Met	Leu	Ile	Leu	Asn	
79						105				110						115	
81	cac	atc	acc	aac	act	tct	ttg	aat	ctt	ttt	cat	gat	gat	att	cac	cat	499
82	His	Ile	Thr	Asn	Thr	Ser	Leu	Asn	Leu	Phe	His	Asp	Asp	Ile	His	His	
83	120					125				130						135	
85	gtg	cgc	aaa	agc	atg	gaa	gtc	aac	ttc	ctc	agt	tac	gtg	gtc	ctg	act	547
86	Val	Arg	Lys	Ser	Met	Glu	Val	Asn	Phe	Leu	Ser	Tyr	Val	Val	Leu	Thr	
87						140				145						150	
89	gta	gct	gcc	ttg	ccc	atg	ctg	aag	cag	agc	aat	gga	agc	att	gtt	gtc	595
90	Val	Ala	Ala	Leu	Pro	Met	Leu	Lys	Gln	Ser	Asn	Gly	Ser	Ile	Val	Val	
91						155				160						165	
93	gtc	tcc	tct	ctg	gtc	ggg	aaa	gtg	gct	tat	cca	atg	gtt	gct	gcc	tat	643
94	Val	Ser	Ser	Leu	Ala	Gly	Lys	Val	Ala	Tyr	Pro	Met	Val	Ala	Ala	Tyr	
95						170				175						180	
97	tct	gca	agc	aag	ttt	gct	ttg	gat	ggg	ttc	ttc	tcc	tcc	atc	aga	aag	691
98	Ser	Ala	Ser	Lys	Phe	Ala	Leu	Asp	Gly	Phe	Phe	Ser	Ser	Ile	Arg	Lys	
99						185				190						195	
101	gaa	tat	tca	gtg	tcc	agg	gtc	aat	gta	tca	atc	act	ctc	tgt	gtt	ctt	739
102	Glu	Tyr	Ser	Val	Ser	Arg	Val	Asn	Val	Ser	Ile	Thr	Leu	Cys	Val	Leu	
103	200					205				210						215	
105	ggc	ctc	ata	gac	aca	gaa	aca	gcc	atg	aag	gca	gtt	tct	ggg	ata	gtc	787
106	Gly	Leu	Ile	Asp	Thr	Glu	Thr	Ala	Met	Lys	Ala	Val	Ser	Gly	Ile	Val	
107						220				225						230	
109	cat	atg	caa	gca	gct	cca	aag	gag	gaa	tgt	gcc	ctg	gag	atc	atc	aaa	835
110	His	Met	Gln	Ala	Ala	Pro	Lys	Glu	Glu	Cys	Ala	Leu	Glu	Ile	Ile	Lys	
111						235				240						245	
113	ggg	gga	gct	ctg	cgc	caa	gaa	gaa	gtg	tat	tat	gac	agc	tca	ctc	tgg	883
114	Gly	Gly	Ala	Leu	Arg	Gln	Glu	Glu	Val	Tyr	Tyr	Asp	Ser	Ser	Leu	Trp	
115						250				255						260	
117	acc	act	ctt	ctg	atc	aga	aat	cca	tgc	agg	aag	atc	ctg	gaa	ttt	ctc	931
118	Thr	Thr	Leu	Leu	Ile	Arg	Asn	Pro	Cys	Arg	Lys	Ile	Leu	Glu	Phe	Leu	
119						265				270						275	
121	tac	tca	acg	agc	tat	aat	atg	gac	aga	ttc	ata	aac	aag	tag			973
122	Tyr	Ser	Thr	Ser	Tyr	Asn	Met	Asp	Arg	Phe	Ile	Asn	Lys	*			
123	280					285				290							
125	gaactccctg	agggctgggc	atgctgaggg	attttggac	tgttctgtct	catgtttatc	1033										
126	ttagctctta	tctatgaaga	catctcccc	gagtgtcccc	agagacatgc	aagtcatggg	1093										

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,832

DATE: 10/29/2004

TIME: 11:33:33

Input Set : A:\ISIS0048-100.SEQ.txt

Output Set: N:\CRF4\10292004\J511832.raw

127 tcacacctga caaatggaag gagttcctt aacatttgc aatggaaat gtaataataa 1153
 128 tgaatgtcat gcaccgctgc agccagca tgtaaaattt ttagtaaaca tagtataat 1213
 129 taccagatag ttatattaaa ttatatatctt atatataata atatgtatg attaatacaa 1273
 130 tattaattat aataaaggc acataaactt tataattca taactggtag ctataacttg 1333
 131 agcttattca ggatgggtct ttaaaccata aactgtacaa tg 1375
 133 <210> SEQ ID NO: 4
 134 <211> LENGTH: 24
 135 <212> TYPE: DNA
 136 <213> ORGANISM: Artificial Sequence
 138 <220> FEATURE:
 139 <223> OTHER INFORMATION: PCR Primer
 141 <400> SEQUENCE: 4
 142 gtttctggga tagtccatat gcaa 24
 144 <210> SEQ ID NO: 5
 145 <211> LENGTH: 21
 146 <212> TYPE: DNA
 147 <213> ORGANISM: Artificial Sequence
 149 <220> FEATURE:
 150 <223> OTHER INFORMATION: PCR Primer
 152 <400> SEQUENCE: 5
 153 agctccccct ttgatgatct c 21
 155 <210> SEQ ID NO: 6
 156 <211> LENGTH: 25
 157 <212> TYPE: DNA
 158 <213> ORGANISM: Artificial Sequence
 160 <220> FEATURE:
 161 <223> OTHER INFORMATION: PCR Probe
 163 <400> SEQUENCE: 6
 164 cagctccaaa ggaggaatgt gccct 25
 166 <210> SEQ ID NO: 7
 167 <211> LENGTH: 19
 168 <212> TYPE: DNA
 169 <213> ORGANISM: Artificial Sequence
 171 <220> FEATURE:
 172 <223> OTHER INFORMATION: PCR Primer
 175 <400> SEQUENCE: 7
 176 gaaggtaaag gtcggagtc 19
 178 <210> SEQ ID NO: 8
 179 <211> LENGTH: 20
 180 <212> TYPE: DNA
 181 <213> ORGANISM: Artificial Sequence
 183 <220> FEATURE:
 184 <223> OTHER INFORMATION: PCR Primer
 187 <400> SEQUENCE: 8
 188 gaagatggtg atgggatttc 20
 190 <210> SEQ ID NO: 9
 191 <211> LENGTH: 20
 192 <212> TYPE: DNA
 193 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/511,832

DATE: 10/29/2004
TIME: 11:33:33

Input Set : A:\ISIS0048-100.SEQ.txt
Output Set: N:\CRF4\10292004\J511832.raw

195 <220> FEATURE:
 196 <223> OTHER INFORMATION: PCR Probe
 198 <400> SEQUENCE: 9
 199 caagcttccc gttctcagcc .20
 201 <210> SEQ ID NO: 10
 202 <211> LENGTH: 1350
 203 <212> TYPE: DNA
 204 <213> ORGANISM: Mus musculus
 206 <220> FEATURE:
 207 <221> NAME/KEY: CDS
 208 <222> LOCATION: (128)...(1006)
 210 <400> SEQUENCE: 10
 211 ggatgagaca gaaggataga gaggaggaga gagagagaga gaagagaagc aaccagaaaat 60
 212 aggcagccaa taaaaaggag cgcacttat ctgaaggctc aaggggcctg agccaggtcc 120
 213 ctgtttg atg gca gtt atg aaa aat tac ctc ctc ccg atc ctg gtg ctc 169
 214 Met Ala Val Met Lys Asn Tyr Leu Leu Pro Ile Leu Val Leu
 215 1 5 10
 217 tcc ctg gcc tac tac tac tat tct aca aat gaa gag ttc aga cca gaa 217
 218 Ser Leu Ala Tyr Tyr Tyr Ser Thr Asn Glu Glu Phe Arg Pro Glu
 219 15 20 25 30
 221 atg ctc cag gga aag aaa gtg att gtc act ggg gcc agc aaa ggg att 265
 222 Met Leu Gln Gly Lys Lys Val Ile Val Thr Gly Ala Ser Lys Gly Ile
 223 35 40 45
 225 gga aga gaa atg gca tat cat ctg tca aaa atg gga gcc cat gtg gta 313
 226 Gly Arg Glu Met Ala Tyr His Leu Ser Lys Met Gly Ala His Val Val
 227 50 55 60
 229 ttg act gcc agg tcg gag gaa ggt ctc cag aag gta gtg tct cgc tgc 361
 230 Leu Thr Ala Arg Ser Glu Glu Gly Leu Gln Lys Val Val Ser Arg Cys
 231 65 70 75
 233 ctt gaa ctc gga gca gcc tct gct cac tac att gct ggc act atg gaa 409
 234 Leu Glu Leu Gly Ala Ala Ser Ala His Tyr Ile Ala Gly Thr Met Glu
 235 80 85 90
 237 gac atg aca ttt gcg gagcaa ttt att gtc aag gcg gga aag ctc atg 457
 238 Asp Met Thr Phe Ala Glu Gln Phe Ile Val Lys Ala Gly Lys Leu Met
 239 95 100 105 110
 241 ggc gga ctg gac atg ctt att cta aac cac atc act cag acc tcg ctg 505
 242 Gly Gly Leu Asp Met Leu Ile Leu Asn His Ile Thr Gln Thr Ser Leu
 243 115 120 125
 245 tct ctc ttc cat gac gac atc cac tct gtg cga aga gtc atg gag gtc 553
 246 Ser Leu Phe His Asp Asp Ile His Ser Val Arg Arg Val Met Glu Val
 247 130 135 140
 249 aac ttc ctc agc tac gtg gtc atg agc aca gcc gcc ttg ccc atg ctg 601
 250 Asn Phe Leu Ser Tyr Val Val Met Ser Thr Ala Ala Leu Pro Met Leu
 251 145 150 155
 253 aag cag agc aat ggc agc att gcc gtc atc tcc tcc ttg gct ggg aaa 649
 254 Lys Gln Ser Asn Gly Ser Ile Ala Val Ile Ser Ser Leu Ala Gly Lys
 255 160 165 170
 257 atg acc cag cct atg att gct ccc tac tct gca agc aag ttt gct ctg 697
 258 Met Thr Gln Pro Met Ile Ala Pro Tyr Ser Ala Ser Lys Phe Ala Leu

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/511,832

DATE: 10/29/2004

TIME: 11:33:33

Input Set : A:\ISIS0048-100.SEQ.txt

Output Set: N:\CRF4\10292004\J511832.raw

259	175	180	185	190	
261	gat ggg ttc ttt .tcc acc att aga aca gaa ctc tac ata acc aag gtc				745
262	Asp Gly Phe Phe Ser Thr Ile Arg Thr Glu Leu Tyr Ile Thr Lys Val				
263	195	200	205		
265	aac gtg tcc atc act ctc tgt gtc ctt ggc ctc ata gac aca gaa aca				793
266	Asn Val Ser Ile Thr Leu Cys Val Leu Gly Leu Ile Asp Thr Glu Thr				
267	210	215	220		
269	gct atg aag gaa atc tct ggg ata att gac gcc cta gct tct ccc aag				841
270	Ala Met Lys Glu Ile Ser Gly Ile Ile Asp Ala Leu Ala Ser Pro Lys				
271	225	230	235		
273	gag gag tgc gcc ctg gag atc atc aaa ggc aca gct cta cgc aaa agc				889
274	Glu Glu Cys Ala Leu Glu Ile Ile Lys Gly Thr Ala Leu Arg Lys Ser				
275	240	245	250		
277	gag gtg tac tat gac aaa ttg cct ttg act cca atc ctg ctt ggg aac				937
278	Glu Val Tyr Tyr Asp Lys Leu Pro Leu Thr Pro Ile Leu Leu Gly Asn				
279	255	260	265	270	
281	cca gga agg aag atc atg gaa ttt ttt tca tta cga tat tat aat aag				985
282	Pro Gly Arg Lys Ile Met Glu Phe Phe Ser Leu Arg Tyr Tyr Asn Lys				
283	275	280	285		
285	gac atg ttt gta agt aac tag gaactcctga gccctgggtga gtggcttag				1036
286	Asp Met Phe Val Ser Asn *				
287	290				
289	aacagtccctg cctcataactt cagtaagccc taccacaaaa agtatcttc cagagataca				1096
290	caaattttgg ggtacacctc atcatgagaa attcttgc当地 cacttgacaca gtggaaaatgt				1156
291	aattgtataata aatgtcacaa accactttgg gcctgcagtt gtgaacttga ttgtactat				1216
292	ggatataaaac acatagtgggt tttatcggt ttacctcaca ctgaatgaaa caatgataac				1276
293	taatgtaaaca ttaaatataa taaaggtaat atcaacttcg taaatgcaaa aaaaaaaaaaa				1336
294	aaaaaaaaaaaa aaaa				1350
296	<210> SEQ ID NO: 11				
297	<211> LENGTH: 18				
298	<212> TYPE: DNA				
299	<213> ORGANISM: Artificial Sequence				
301	<220> FEATURE:				
302	<223> OTHER INFORMATION: PCR Primer				
304	<400> SEQUENCE: 11				
305	ggcggactgg acatgctt				18
307	<210> SEQ ID NO: 12				
308	<211> LENGTH: 22				
309	<212> TYPE: DNA				
310	<213> ORGANISM: Artificial Sequence				
312	<220> FEATURE:				
313	<223> OTHER INFORMATION: PCR Primer				
316	<400> SEQUENCE: 12				
317	gagtggatgt cgtcatggaa ga				22
319	<210> SEQ ID NO: 13				
320	<211> LENGTH: 31				
321	<212> TYPE: DNA				
322	<213> ORGANISM: Artificial Sequence				
324	<220> FEATURE:				

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/511,832

DATE: 10/29/2004

TIME: 11:33:34

Input Set : A:\ISIS0048-100.SEQ.txt

Output Set: N:\CRF4\10292004\J511832.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date